

# Password-less logins with use of ssh-keygen

---

To set things up so you do not have to enter passwords when ssh-ing from a local to a remote machine, you must follow these instructions:

1. Go to your home .ssh directory on the local system: `~yourlocalhome/.ssh/` If this directory does not exist, you must create it in you home directory: `mkdir .ssh`

2. Create a public key (\*just hit enter <blank response> to the questions or requests\*):

```
% ssh-keygen -t dsa
```

3. Copy the public key from the file `~yourlocalhome/.ssh/id_dsa.pub` to

the remote machine: `~yourremotehome/.ssh/authorized_keys` If the authorized \_keys file does not exist, you must create it.

If you have problems, check the permissions on both .ssh directories and their files; Make sure only you have read access to these files and directories.

**Example:** For password-less logins to dirac (remote machine) from discover (local machine), create the public key on discover and add the key to the `authorized_keys` file on dirac. If you want to then have a password-less login from dirac to discover, you must follow the above instructions with dirac now designated as the local machine and discover as the remote machine.

For password-less ssh from a machine to itself, both the local and the remote machines are the same. This is commonly needed on discover for some of the MPI modules to work properly.